

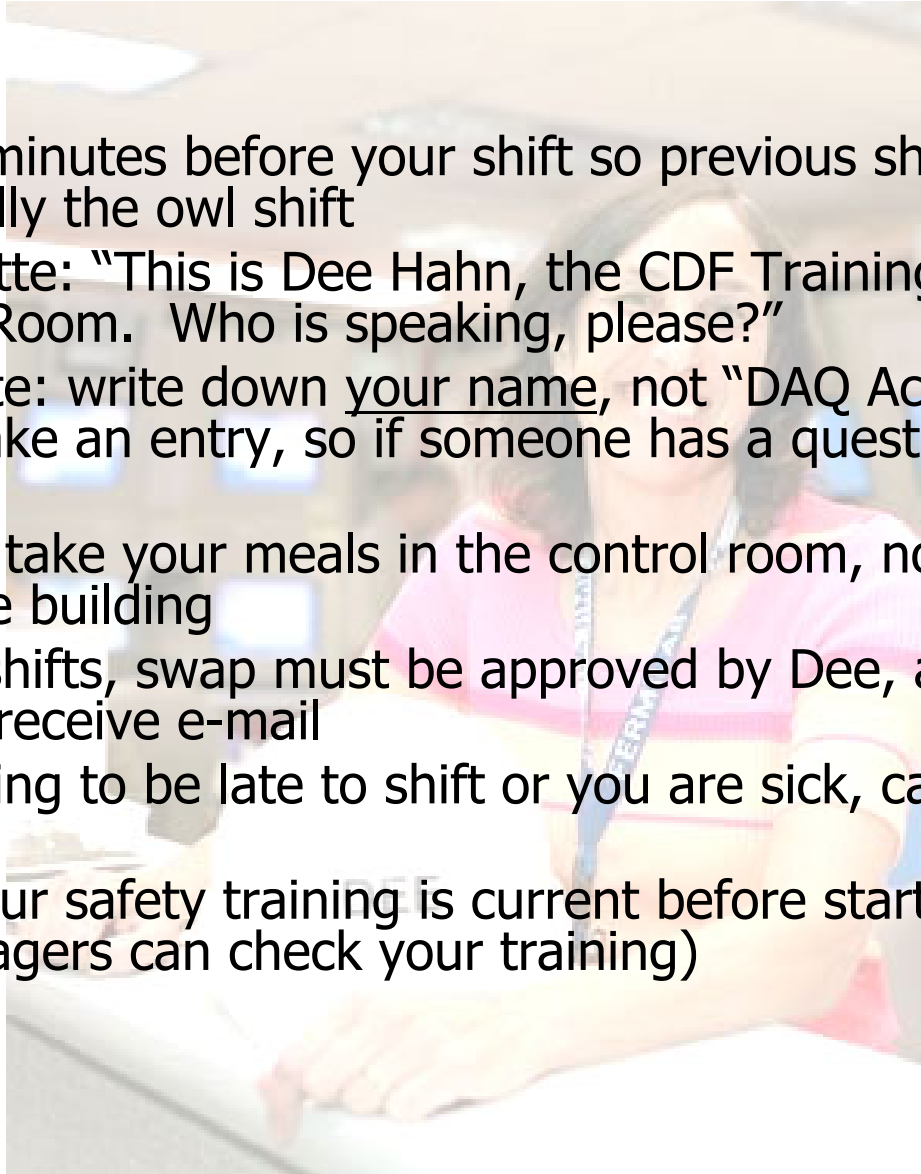


# Operations Guide

Steve Hahn  
Introduction and  
Operations Guide  
01/14/2004

## ● Preface

- Show up 15 minutes before your shift so previous shift can leave on time, especially the owl shift
- Phone etiquette: "This is Dee Hahn, the CDF Training Coordinator, in the CDF Control Room. Who is speaking, please?"
- E-log etiquette: write down your name, not "DAQ Ace" or some such, when you make an entry, so if someone has a question they can find you
- On shift, you take your meals in the control room, not in the B0 kitchen or outside the building
- If you swap shifts, swap must be approved by Dee, and all involved parties must receive e-mail
- If you are going to be late to shift or you are sick, call the control room or Dee
- Make sure your safety training is current before starting shifts (Dee or the Ops Managers can check your training)





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## ● CDF Operations Guidelines

- Defines roles and responsibilities of shift crew and supporting personnel
- During data-taking running, 24/7 operations with on-shift crew (in control room):
  - Scientific Coordinator (SciCo) – shift leader
  - DAQ Ace – data-taking
  - Monitoring Ace – safety and data quality
  - Consumer Operator – data quality
- 24 hour support from process systems technicians downstairs in cryo area (x3632) – current tech(s) on main iFIX page

Two aces per shift  
generally swap  
alternate days



# Shift Support

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## ➤ Other off-shift support (most with pagers or cell phones) for shift crew:

- Operations manager
- SVX radiation damage control officer (RadCo)
- DAQ experts
- CDF Mechanical Group, CDF Detector Group
- CDF Offline Group
- Etc. etc. etc.

## ➤ Long list of pagers

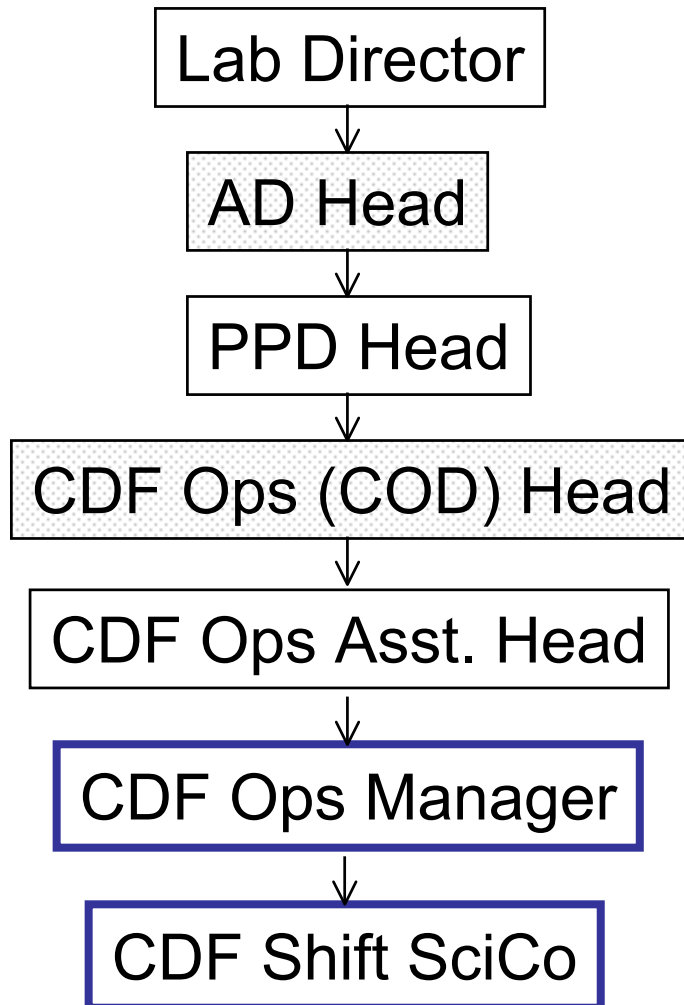
- Latest version on web:  
<http://www-cdfonline.fnal.gov/ace2help/phones.html>
- Paper copies around the control room
- Keep calling until you get help; call all numbers listed (not everyone sleeps with their pager or cell phone)



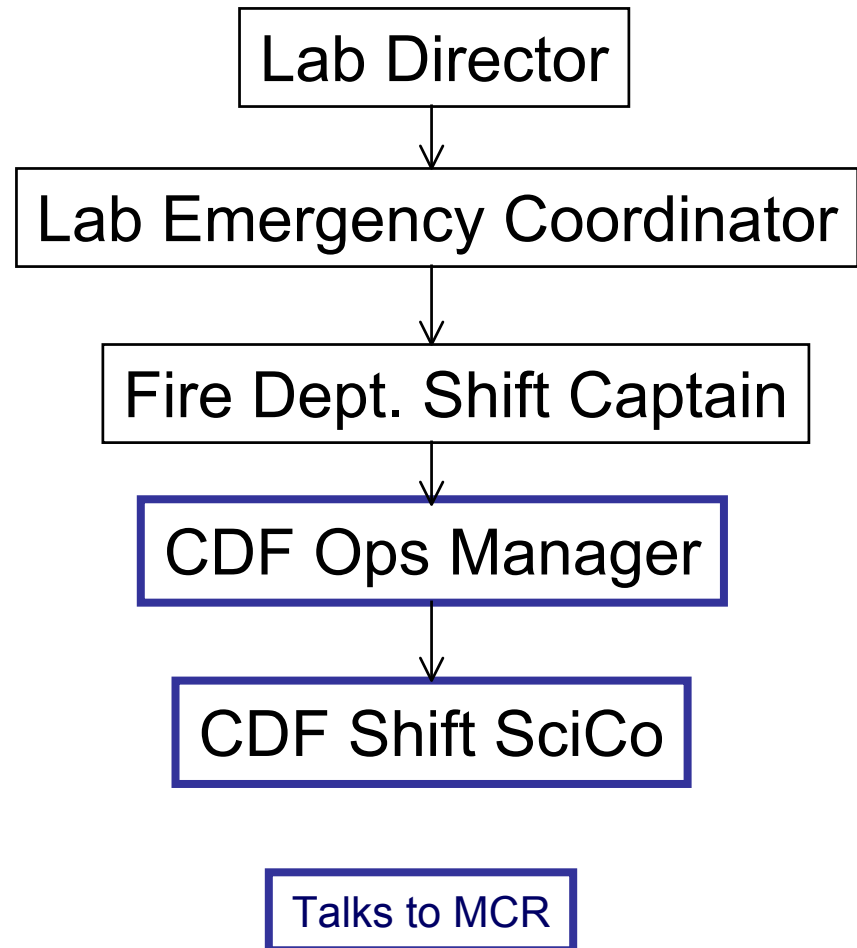
# Chain of Command

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## Normal Operations



## Emergency Situation





# Open Operations Group

## Detector and Computing Operations

Head Michael Lindgren  
Deputy Head Rob Roser  
Deputy Head Rob Harris

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Admin. Support  
Nancy Michael

Safety Coordinator  
Dee Hahn

**Associate Head, Computer Infrastructure**  
Frank Wurthwein

**Data Handling**  
Jeff Tseng

**Farms**  
Steve Wolbers  
Yen-Chu Chen

**Central Analysis Systems**  
Mark Neubauer

**Data Bases**  
Alan Sill(Deputy)

**Trailer Computing**  
Robert Harris  
Frank Wurthwein

**Associate Head, Detector Operations**  
Kaori Maeshima

**Operations Manager**  
Eric James  
Mathew Jones  
Phil Koehn

**Daily/Weekly Ops**  
Shift Crews  
Sci-Co  
Aces(2)  
Co

**Calibrations**

**Offline Operations**  
Pasha Murat

**Offline Aces**

**Offline shift crews**

**Associate Head, Detector Subsystems**  
Jimmy Proudfoot

**Silicon**  
Gino Bolla  
Chris Hill

**COT**  
David Ambrose  
Bill Orejuos  
Bob Wagner

**Muons**  
Camille Ginsburg  
Phil Schlabach

**CLC**  
Jaco Konigsberg  
Sacha Suhkanov

**Monitoring/Valid**  
Kaori Maeshima

**Calorimeters**  
Karen Byrum  
Larry Nodulman  
Willis Sakumoto

**Trigger L1/L2**  
Greg Field  
Peter Wittich

**Online Database**  
William Badgett

**TOF**  
Gerry Bauer  
Mathew Jones  
Fumihiko Ukegawa

**DAQ**  
Frank Chlebana  
William Badgett

**Level 3**

**CSL**  
T. Vaiciulis

**Associate Head, Detector Infrastructure**  
Stefano Moccia - Steve Hahn

**Process Systems**  
Bill Noe(Leader)  
Dean Becker  
Warren Bowman  
Cutchlow Cahill  
Steve Gordon  
Jim Humbert  
Jim Loskot  
Bruce Vollmer

**Electrical and Mechanical**  
Dervin Allen(Leader)  
Roberto Davila  
Lew Morris  
Wayne Walden  
George Wyatt

**Slow Controls**  
Steve Hahn(Leader)  
JJ Schmidt  
JC Yun

**Building Manager**  
Craig Olson



# Operations Group

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- Head –Rob Roser, Carl Bromberg
- ES&H Head – vacancy
- Associate Head – Camille Ginsburg, Kaori Maeshima
- Training – Dee Hahn
- Operations Managers:
  - Rotation (every week, usually seven days):  
[http://www-cdfonline.fnal.gov/opshelp/ops\\_manager.html](http://www-cdfonline.fnal.gov/opshelp/ops_manager.html)
  - Active ops manager has
    - pager (314-4862)
    - cell phone (846-0600); usually only for outgoing calls
  - Current ops managers:
    - Mary Convery
    - Robert Harr
    - J.J. Schmidt
    - **Steve Hahn** (emeritus) – cell phone (399-0135)



# Shift Roles

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- Operations Associate Head
  - Sets priorities and goals for run
  - Maintains Run Plan
  - May act as Ops Manager if needed
- Ops Manager
  - Shift priorities
  - Runs daily operations meeting
  - Posts daily run plan
  - Coordinates shutdowns/accesses
    - Ops Manager **MUST** be contacted before any access
  - Liaison to AD; attends AD meetings
  - Reports to All Experimenters' meeting



# Shift Roles

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- **Scientific Coordinator (SciCo)**
  - Communicates with MCR
  - ERP implementation
  - Heads shift
  - Daily Operations Meeting shift summary
  - Shift resource allocation
  - Maintains logbook
  - Maintains goodrun list
  - Helps maintain downtime logger
- **Both Aces**
  - Assist ERP implementation
  - Enter information in logbook





# Shift Roles

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- DAQ Ace
  - Runs data acquisition and calibrations
  - Assist other DAQ users
- Monitoring Ace
  - Investigates alarms, assists in recovery procedures
  - Monitors CDF Infrastructure systems (flammable gas, cryogenics, Suva™, silicon cooling, rack protection, LCW, ECW, HVAC) through iFIX
  - “Takes preemptive actions to minimize experiment down time”
  - Monitors data quality
  - Monitors beam conditions from Acnet and TeVmon
  - Maintains downtime logger
  - Assists consumer operator
  - Fills out shot setup form



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- Consumer operator
  - Runs and checks data monitors
    - online consumers
    - calibration results
  - Notifies SciCo and appropriate personnel of problems